Options
Title: ssb_sc_f...crimination
Author: shashank
Output Language: Python
Generate Options: QT GUI

Variable
ID: samp_rate
Value: 32k

Variable
ID: msg_amplitude
Value: 10

Variable
ID: carrier_amplitude
Value: 1

Variable
ID: mu
Value: 10

Variable
ID: fc
Value: 10k

Variable
ID: fm
Value: 1.5k

QT GUI Time Sink
Name: Message Signal
Number of Points: 1.024k
Sample Rate: 32k
Autoscale: Yes

QT GUI Frequency Sink
Name: Message Signal
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k

Signal Source
Sample Rate: 32k
Waveform: Cosine
Frequency: 1.5k
Amplitude: 10
Offset: 0
Initial Phase (Radians): 0

Signal Source
Sample Rate: 32k
Waveform: Cosine
Frequency: 10k
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0

Multiply

Band Pass Filter
Interpolation: 1
Gain: 1
Sample Rate: 32k
Low Cutoff Freq: 10k
High Cutoff Freq: 11.5k
Transition Width: 1
Window: Hamming
Beta: 6.76

Band Pass Filter
Interpolation: 1
Gain: 1
Sample Rate: 32k
Low Cutoff Freq: 8.5k
High Cutoff Freq: 10k
Transition Width: 1
Window: Hamming
Beta: 6.76

Throttle
Sample Rate: 32k
Limit: None

QT GUI Time Sink
Name: Modulated Signal
Number of Points: 1.024k
Sample Rate: 32k
Autoscale: Yes

QT GUI Frequency Sink
Name: Modulated Signal
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k

Signal Source
Sample Rate: 32k
Waveform: Cosine
Frequency: 10k
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0

Multiply

Low Pass Filter
Decimation: 1
Gain: 1
Sample Rate: 32k
Cutoff Freq: 1.5k
Transition Width: 1
Window: Hamming
Beta: 6.76

QT GUI Time Sink
Name: Demodulated Signal
Number of Points: 1.024k
Sample Rate: 32k
Autoscale: Yes

QT GUI Frequency Sink
Name: Demodulated Signal
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k